

SAFETY DATA SHEET

Issue Date 20-Apr-2015

Revision Date 20-Apr-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

3511

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard 616 Hite Road Harwick PA, 15049 724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-Butoxy Ethanol	111-76-2	10 - 30
Trade Secret Pigment	Proprietary	1 - 5
Triethylamine	121-44-8	1 - 5
Titanium Dioxide	13463-67-7	0.1 - 1
Carbon Black	1333-86-4	0.1 - 1

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Sultable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids, Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Trade Secret Pigment	TWA: 1 mg/m³ Fè	(vacated) TWA: 1 mg/m³ Fe.	TWA: 1 mg/m³ Fe	Mexico: TWA 1 mg/m³ Mexico: STEL 2 mg/m³
Triethyłamine 121-44-8	STEL: 3 ppm TWA: 1 ppm S*	TWA: 25 ppm TWA: 100 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 40 mg/m³ (vacated) STEL: 15 ppm (vacated) STEL: 60 mg/m³	IDLH: 200 ppm	Mexico: TWA 25 ppm Mexico: TWA 100 mg/m³ Mexico: STEL 40 ppm Mexico: STEL 160 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³

Carbon Black 1333-86-4	TWA: 3 rng/rn³ inhalable fraction	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of	Mexico: TWA 3.5 mg/m³ Mexico: STEL 7 mg/m³
			Polycyclic aromatic	
			hydrocarbons PAH	

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor

Color

liauid Amines

opaque, black

Property

pΗ

8.0-8.5

Melting point/freezing point

Boiling point / boiling range

Flash Point **Evaporation rate**

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density Specific Gravity

Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature

Viscosity

Explosive properties Oxidizing properties Values

No information available No information available

> 94 °C / > 201 °F No information available

No information available

No information available No information available No information available

No information available 1.04

Soluble in water

No information available No information available No information available No information available No information available

No information available No information available

Remarks · Method

Pensky-Martens Closed Cup (PMCC)

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Other Information

Softening point Molecular weight VOC Content (%) No information available No information available No information available 8.63 lb/gal +/- 0.2

Density Bulk density

No information available

10. STABILITY AND REACTIVITY

Reactivity

Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Butoxy Ethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg(Rabbit)	= 450 ppm (Rat) 4 h
Trade Secret Pigment	> 10000 mg/kg (Rat)	-	-
Triethylamine 121-44-8	= 460 mg/kg (Rat)	= 570 μL/kg(Rabbit)= 415 mg/kg (Rabbit)	= 1250 ppm (Rat) 4 h
Titanium Dioxide 13463-67-7	> 10000 mg/kg(Rat)	•	
Carbon Black 1333-86-4	> 15400 mg/kg(Rat)	> 3 g/kg(Rabbit)	-

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Sensitization

Germ cell mutagenicity Carcinogenicity

No information available. No information available.

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form. This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for

this product since it is a liquid.

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
2-Butoxy Ethanol 111-76-2	A3	Group 3	-	-	-
Titanium Dioxide 13463-67-7	-	Group 2B		Х	w
Carbon Black 1333-86-4	A3	Group 2B	-	Х	

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity STOT - single exposure

No information available. No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0.23900446% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

2.63341% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Butoxy Ethanol 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
Triethylamine 121-44-8	-	43.7; 96 h Pimephales promelas mg/L LC50 static	200: 48 h Daphnia magna mg/L EC50
Carbon Black 1333-86-4	_		5600: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Butoxy Ethanol 111-76-2	0.81
Triethylamine	1.45
121-44-8	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

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Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOTNot regulatedTDGNot regulatedMEXNot regulatedIATANot regulatedIMDGNot regulated

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Not Determined **DSL/NDSL EINECS/ELINCS** Not Determined Not Determined **ENCS** Not Determined **IECSC KECL** Not Determined Not Determined **PICCS** Not Determined **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

of Chemicals which are subject to the reporting requirements of an	
Chemical Name	SARA 313 - Threshold Values %
2-Butoxy Ethanol - 111-76-2	1.0
Triethylamine - 121-44-8	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

US State Regulations

This product may contain substances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
2-Butoxy Ethanol 111-76-2	X	X	X		
Triethylamine 121-44-8	×	X	X		X
Titanium Dioxide 13463-67-7	X	Х	X	-	
Pigment Green 7 1328-53-6	X	-	X	-	<u></u>
Ethanol, 2-(dimethylamino)- 108-01-0	X	X	X		-
Carbon Black 1333-86-4	X	×	Х	X	-
2-Propanol 67-63-0	X	X	Х	-	X
Silica, amorphous precipitated 112926-00-8	Х	×	Х	-	-
Aluminum oxide (Al2O3) 1344-28-1	X	×	X	-	X
2-Methoxymethylethoxy propanol 34590-94-8	Х	X	Х	-	-

16. OTHER INFORMATION

Issue Date Revision Date 20-Apr-2015 20-Apr-2015

Revision Note

No information available

Disclaimer

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet



SAFETY DATA SHEET

Issue Date 18-Jul-2016

Revision Date 19-Jul-2016

Version 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

3520

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard 616 Hite Road Harwick PA, 15049 USA

+1-724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec USA 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Specific treatment (see .? on this label)

3520

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-Butoxy Ethanol	111-76-2	10 - 30
Iron hydroxide oxide (Fe(OH)O)	20344-49-4	1 - 5
Titanium Dioxide	13463-67-7	1 - 5
Triethylamine	121-44-8	1 - 5
Carbon Black	1333-86-4	0.1 - 1

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

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Explosion data.

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drilli, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Iron hydroxide oxide (Fe(OH)O) 20344-49-4	TWA: 1 mg/m³ Fe	(vacated) TWA: 1 mg/m³ Fe	TWA: 1 mg/m³ Fe	Mexico: TWA 1 mg/m³ Mexico: STEL 2 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³

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Triethylamine 121-44-8	STEL: 1 ppm TWA: 0.5 ppm S*	TWA: 25 ppm TWA: 100 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 40 mg/m³ (vacated) STEL: 15 ppm (vacated) STEL: 60 mg/m³	IDLH: 200 ppm	Mexico: TWA 25 ppm Mexico: TWA 100 mg/m³ Mexico: STEL 40 ppm Mexico: STEL 160 mg/m³
Carbon Black 1333-86-4	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH	Mexico: TWA 3.5 mg/m³ Mexico: STEL 7 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid

Amines opaque, green

Property

рH

Melting point / freezing point Boiling point / boiling range

Flash Point Evaporation rate

Flammability (solid, gas)
Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density Specific Gravity

Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature Values

No information available No information available

> 36.0 °C

94.0 °C / 201.0 °F

No information available

No information available

No information available No information available No information available No information available

1.04

Soluble in water

No information available No information available No information available

Pensky-Martens Closed Cup (PMCC)

Remarks • Method

3520

Decomposition temperature

Viscosity

Explosive properties Oxidizing properties

No information available No information available

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

No information available No information available No information available

8.63 lb/gal +/- 0.20 No information available

10. STABILITY AND REACTIVITY

Reactivity

Bulk density

Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Butoxy Ethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg(Rabbit)	= 450 ppm (Rat) 4 h
Iron hydroxide oxide (Fe(OH)O) 20344-49-4	> 10000 mg/kg(Rat)	-	#-
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Triethylamine 121-44-8	= 460 mg/kg (Rat)	= 570 μL/kg(Rabbit)= 415 mg/kg (Rabbit)	= 1250 ppm(Rat)4 h
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg(Rabbit)	w.

Information on toxicological effects

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Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form.

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
2-Butoxy Ethanol 111-76-2	A3	Group 3	-	•	
Titanium Dioxide 13463-67-7	<u>.</u>	Group 2B	-	X	
Carbon Black 1333-86-4	A3	Group 2B		×	

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans Not classifiable as a human carcinogen

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Chronic toxicity

May cause adverse effects on the bone marrow and blood-forming system. May cause

adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, lungs,

Respiratory system, Skin, Bladder, Central Vascular System (CVS), Gastrointestinal tract

(GI).

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0.77921376% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

3.15108% of the mixture consists of components(s) of unknown hazards to the aquatic environment

	emical Name	Algae/aquatic plants	Fish	Crustacea
	Butoxy Ethanol 111-76-2	-	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
7	riethylamine	-	43.7: 96 h Pimephales promelas mg/L LC50 static	200: 48 h Daphnia magna mg/L EC50
	Carbon Black 1333-86-4	-	-	5600: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

		Partition coefficient
ŀ	Chemical Name	Partition Coemicient
1	Oremour Traine	

3520

2-Butoxy Ethanol	0.81
111-76-2	
	d AF
Triethylamine	1.45
121-44-8	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Not regulated DOT

TDG Not regulated

Not regulated MEX

Not regulated IATA

Not regulated IMDG

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Not Determined **DSL/NDSL** Not Determined **ENCS** Not Determined **IECSC** Not Determined **KECL** Not Determined **PICCS** Not Determined **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical porting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

or chemicals which are subject to the reporting requirements of	The Art of the second of the s
Chemical Name	SARA 313 - Threshold Values %
	10
2-Butoxy Ethanol - 111-76-2	
Triethylamine - 121-44-8	1.0

SARA 311/312 Hazard Categories

Acute health hazard Chronic Health Hazard Yes

Yes

3520

Yes Fire hazard No Sudden release of pressure hazard No Reactive Hazard

US State Regulations

nis product may contain su Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
2-Butoxy Ethanol 111-76-2	X	X	X	-	-t-
Titanium Dioxide 13463-67-7	X	X	X	•	
Triethylamine 121-44-8	X	X	Х		X
Copper(III) phthalocyanine 147-14-8	X	-	Х	· ·	•
2-Dimethylaminoethanol 108-01-0	X	· X	X	~	
2-Propanol 67-63-0	X	×	X	*	X
Carbon Black 1333-86-4	X	×	X	X	
Stoddard Solvent, solvent naphta 8052-41-3	X	X	X	-	

16. OTHER INFORMATION

Issue Date Revision Date 18-Jul-2016 19-Jul-2016

Revision Note

SDS sections updated: 14

Disclaimer

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet



SAFETY DATA SHEET

Issue Date 19-Aug-2015

Revision Date 19-Aug-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

3634

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard 616 Hite Road Harwick PA, 15049 724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H227 - Combustible liquid



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat and sparks - No Smoking Keep cool

3634

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs. Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-Butoxy Ethanol	111-76-2	10 - 30
Titanium Dioxide	13463-67-7	1 - 5
Triethylamine	121-44-8	1 - 5

4. FIRST AID MEASURES

First aid measures

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

ingestion If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No.

3634

Sensitivity to Static Discharge Yes

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³
Triethylamine 121-4 4 -8	STEL: 3 ppm TWA: 1 ppm S*	TWA: 25 ppm TWA: 100 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 40 mg/m³ (vacated) STEL: 15 ppm (vacated) STEL: 60 mg/m³	IDLH: 200 ppm	Mexico: TWA 25 ppm Mexico: TWA 100 mg/m³ Mexico: STEL 40 ppm Mexico: STEL 160 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

3634

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Evewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid

Amines opaque, blue

Property

pΗ Melting point/freezing point Boiling point / boiling range

Flash Point

Evaporation rate Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density **Specific Gravity**

Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature

Decomposition temperature

Viscosity

Explosive properties Oxidizing properties

Values No information available No information available No information available

70.0 °C / 158.0 °F

No information available No information available

No information available No information available No information available No information available

1.04

Soluble in water

No information available No information available No information available No information available No information available

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

Bulk density

No information available No information available No information available 8.70 lb/gal +/- 0.20 No information available

10. STABILITY AND REACTIVITY

3634

Reactivity Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

p	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name 2-Butoxy Ethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg(Rabbit)	= 450 ppm (Rat) 4 h
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	(F) - 1 \ 1 \ 1
Triethylamine	= 460 mg/kg (Rat)	= 415 mg/kg(Rabbit)= 570 μL/kg (Rabbit)	= 1250 ppm (Rat) 4 h

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

Germ cell mutagenicity

Carcinogenicity

Titanium Dioxide

No information available.

No information available.

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). This product contains titanium dioxide which is

classified as a possible carcinogen when present as respirable dust. This is not relevant for

this product since it is a liquid **OSHA** NTP IARC **ACGIH** Chemical Name Group 3 2-Butoxy Ethanol 111-76-2 X

Group 2B

13463-67-7 ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

Mexico

3634

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available. No information available.

STOT - single exposure STOT - repeated exposure

No information available.

Chronic toxicity

May cause adverse effects on the bone marrow and blood-forming system. May cause

adverse liver effects.

Target Organ Effects

blood, Central nervous system, Central Vascular System (CVS), Eyes, Hematopoletic

System, kidney, liver, lungs, Respiratory system, Skin.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

1.15638082% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

1.37854% of the mixture consists of components(s) of unknown hazards to the aquatic environment

1	Chemical Name	Algae/aguatic plants	Fish	Crustacea
	2-Butoxy Ethanol 111-76-2	Augustagamas	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
	Triethylamine 121-44-8	-	43.7: 96 h Pimephales promelas mg/L LC50 static	200: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Butoxy Ethanol 111-76-2	0.81
Triethylamine	1.45
121-44-8	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Note:

DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2)"

DOT

UN/ID No.

NA1263

Proper shipping name **Hazard Class**

Paint, combustible Combustible liquid

Packing Group

3634

TDG

Not regulated

MEX

Not regulated

<u>IATA</u>

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA DSL/NDSL **EINECS/ELINCS ENCS IECSC**

Complies Not Determined Not Determined Not Determined Not Determined Not Determined

KECL PICCS AICS

Not Determined Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

or chemicals which are subject to the reporting requirements of the	le Act and Title 40 of the Oddo of Cada, a Caga, August 1
P	SARA 313 - Threshold Values %
Chemical Name	
S.D. Janes Fithered 1111 76 2	1.0
2-Butoxy Ethanol - 111-76-2	1.0
Triethylamine - 121-44-8	1.0
Theory and the - 121-4-2	

SARA 311/312 Hazard Categories

Yes Acute health hazard Yes Chronic Health Hazard Yes Fire hazard No Sudden release of pressure hazard No Reactive Hazard

US State Regulations

This product may contain substances regulated by state right-to-know regulations Pennsylvania -Pennsylvania -Pennsylvania Massachusetts **New Jersey Chemical Name** Special Hazardous Environmental Hazard List Substances Х X 2-Butoxy Ethanol Х 111-76-2 Χ Х Χ Titanium Dioxide 13463-67-7 X X X Х Triethylamine 121-44-8 Χ Х Copper(III) phthalocyanine 147-14-8 X X Χ 2-Dimethylaminoethanol 108-01-0

3634

				-	X
2-Propanol 67-63-0	X	Х	^		
Silica, amorphous precipitated 112926-00-8	X	Х	Х	-	
Aluminum oxide (Al2O3) 1344-28-1	X	×	×		X
Stoddard Solvent, solvent naphta 8052-41-3	X	Х	X	-	
2-Methoxymethylethoxy propanol 34590-94-8	X	X	X		

16. OTHER INFORMATION

Issue Date

19-Aug-2015

Revision Date

19-Aug-2015

Revision Note

No information available

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet

WATSONSTANDARD®

SAFETY DATA SHEET

Issue Date 07-Jan-2016

Revision Date 07-Jan-2016

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

3654

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard 616 Hite Road Harwick PA, 15049 USA

+1-724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H227 - Combustible liquid



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat and sparks - No Smoking Keep cool

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-Butoxy Ethanol	111-76-2	10 - 30 ·
Titanium Dioxide	13463-67-7	1-5
Copper(III) phthalocyanine	147-14-8	1 - 5
Triethylamine	121-44-8	1 - 5

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Page 2/8

3654

Suitable extinguishing media

Use. Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

			MUMME LINE LE	Exposure Limits
	ACGIH TLV	OSHA PEL	NIOSH IDLH	EXPOSUIG FILLIO
Chamical Name	ALCINILV	COM IA I LL		

2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m ³	Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³
Copper(III) phthalocyanine 147-14-8	TWA: 1 mg/m³ Cu dust and mist	-	IDLH: 100 mg/m³ Cu dust and mist TWA: 1 mg/m³ Cu dust and mist	- -
Triethylamine 121-44-8	STEL: 3 ppm TWA: 1 ppm S*	TWA: 25 ppm TWA: 100 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 40 mg/m³ (vacated) STEL: 15 ppm (vacated) STEL: 60 mg/m³	IDLH: 200 ppm	Mexico: TWA 25 ppm Mexico: TWA 100 mg/m³ Mexico: STEL 40 ppm Mexico: STEL 160 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles. Face protection shield.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid Alcohol opaque, blue

Property

pH Melting point / freezing point Boiling point / boiling range

Flash Point Evaporation rate

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure

Values
No information available
No information available
No information available
90.0 °C / 194.0 °F
No information available
No information available

No information available No information available No information available Remarks · Method

3654

Vapor density

No information available

Specific Gravity

1.03

Water solubility

Soluble in water

Solubility in other solvents Partition coefficient

No information available No information available

Autoignition temperature Decomposition temperature No information available No information available

Viscosity **Explosive properties** No information available No information available

Oxidizing properties

No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

No information available No information available No information available 8.58 lb/gal +/- 0.20

No information available

10. STABILITY AND REACTIVITY

Reactivity

Bulk density

Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Total Carlotte	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
2-Butoxy Ethanol	- 470 mg/ng (1.21)		
111-76-2 Titanium Dioxide	> 10000 mg/kg (Rat)	-	-
13463-67-7			

3654

	(100 0 100)	= 415 mg/kg (Rabbit) = 570 μL/kg	= 1250 ppm (Rat) 4 h
Triethylamine	= 460 mg/kg (Rat)		1
		(Rabbit)	
121-44-8			

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

Germ cell mutagenicity Carcinogenicity

No information available. No information available.

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). This product contains titanium dioxide which is

classified as a possible carcinogen when present as respirable dust. This is not relevant for

this product since it is a liquid

this product since it is a riquid.					
Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
2-Butoxy Ethanol	A3	Group 3	-	-	-
Titanium Dioxide	-	Group 2B	MA.	Х	-
13463-67-7	ļ			<u> </u>	

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure Chronic toxicity

No information available. No information available.

No information available.

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May

cause adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, lungs,

Respiratory system, Skin, Central Vascular System (CVS).

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

2.61733255% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

2 79857% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aguatic plants	Fish	Crustacea
2-Butoxy Ethanol 111-76-2	2-Butoxy Ethanol -		1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
Copper(III) phthalocyanine	-	Lepomis macrochirus mg/L LC50 100: 48 h Oryzias latipes mg/L LC50 static	-
Triethylamine 121-44-8	-	43.7: 96 h Pimephales promelas mg/L LC50 static	200: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient

3654

2-Butoxy Ethanol	0.81
111-76-2 Copper(III) phthalocyanine	6.6
147-14-8	1.45
Triethylamine 121-44-8	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Note:

DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2)"

DOT

UN/ID No.

UN1263

Proper shipping name

Paint, combustible Combustible liquid

Hazard Class Packing Group

TDG

Not regulated

MEX

Not regulated

IATA

Not regulated

<u>IMDG</u>

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

Complies

DSL/NDSL

Not Determined

ENCS

Not Determined Not Determined

IECSC

KECL

Not Determined

PICCS

Not Determined Not Determined

AICS

Legend: TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

3654

	SARA 313 - Threshold Values %
Chemical Name	1.0
2-Butoxy Ethanol - 111-76-2	10
Copper(III) phthalocyanine - 147-14-8	10
Triethylamine - 121-44-8	1.0
THOUTH TOTAL	

SARA 311/312 Hazard Categories

Yes Acute health hazard No Chronic Health Hazard Yes Fire hazard No Sudden release of pressure hazard No Reactive Hazard

He carte Demilations

his product may contain su Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
2-Butoxy Ethanol	X	X	X	-	
Titanium Dioxide 13463-67-7	X	×	X	*	
Copper(III) phthalocyanine	Х	-	X	-	X
Triethylamine	X	×	X	*	
2-Dimethylaminoethanol	X	×	X	-	
2-Propanol 67-63-0	X	×	X	*	X
Stoddard Solvent, solvent naphta 8052-41-3	X	X	X	-	-
2-Methoxymethylethoxy propanol 34590-94-8	Х	X	X		

16. OTHER INFORMATION

Issue Date **Revision Date Revision Note** 07-Jan-2016 07-Jan-2016 Not Applicable

Disclaimer

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet



SAFETY DATA SHEET

ISO 9001 - 2008

Issue Date 11-Apr-2015

Revision Date 11-Apr-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

3800

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard 616 Hite Road Harwick PA, 15049 724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H227 - Combustible liquid



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat and sparks - No Smoking

Keep cool

3800

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-Butoxy Ethanol	111-76-2	10 - 30
Titanium Dioxide	13463-67-7	10 - 30
Triethylamine	121-44-8	1 - 5

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No.

3800

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³
Triethylamine 121-44-8	STEL: 3 ppm TWA: 1 ppm S*	TWA: 25 ppm TWA: 100 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 40 mg/m³ (vacated) STEL: 15 ppm (vacated) STEL: 60 mg/m³	IDLH: 200 ppm	Mexico: TWA 25 ppm Mexico: TWA 100 mg/m³ Mexico: STEL 40 ppm Mexico: STEL 160 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

3800

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor

liquid Amines

opaque, gray Color

Property

Melting point/freezing point

Boiling point / boiling range

Flash Point Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density **Specific Gravity**

Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature

Viscosity

Explosive properties Oxidizing properties

Values

No information available No information available

No information available

60.5 °C / 141.0 °F No information available

No information available

No information available No information available No information available No information available

1.12

Soluble in water

No information available No information available No information available No information available

No information available No information available No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

Bulk density

No information available No information available No information available 9.30 lb/gal +/- 0.2 No information available

10. STABILITY AND REACTIVITY

3800

Reactivity Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	inhalation LC50 = 450 ppm (Rat) 4 h
2-Butoxy Ethanol	= 470 mg/kg (Rat)	= 220 mg/kg (Rabbit)	= 450 ppm (Kat) 4 m
111-76-2 Titanium Dioxide	> 10000 mg/kg (Rat)		**
13463-67-7 Triethylamine	= 460 mg/kg (Rat)	= 416 mg/kg(Rabbit)= 570 μL/kg (Rabbit)	= 1250 ppm (Rat) 4 h

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). This product contains titanium dioxide which is

classified as a possible carcinogen when present as respirable dust. This is not relevant for

	this pro	duct since it is a liquid.			
Ol i sal blomo	ACGIH	IARC	NTP	OSHA	Mexico
Chemical Name 2-Butoxy Ethanol	A3	Group 3	-	•	*
111-76-2 Titanium Dioxide	-	Group 2B	-	×	-
13463-67-7			_ \$	<u></u>	

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

3800

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available. No information available.

STOT - repeated exposure

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0.69523432% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

1.37324% of the mixture consists of components(s) of unknown hazards to the aquatic environment

	1.37324% of the mixture consists	s of components(s) of unknown in	Fish	Crustacea
I	Chemical Name	Algae/aquatic plants	4400: 06 b Lanomis macrochirus	1000: 48 h Daphnia magna mg/L
	2-Butoxy Ethanol 111-76-2	-	mg/L LC50 static 2950; 96 h	EC50 1698 - 1940: 24 h Daphnia
	111-70-2		Lepomis macrochirus mg/L LC50 43.7: 96 h Pimephales promelas	
	Triethylamine 121-44-8		mg/L LC50 static	EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

	Partition coefficient
Chemical Name	0.81
2-Butoxy Ethanol	
111-76-2	1.45
Triethylamine	1.45
121-44-8	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Note:

DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2)"

DOT

UN/ID No.

NA1263

Proper shipping name **Hazard Class**

Paint, combustible Combustible liquid

Packing Group

TDG

Not regulated

MEX

Not regulated

3800

IATA

Not regulated

IMDG

Not regulated

		ORMATION

International Inventories

Complies **TSCA** Not Determined DSL/NDSL Not Determined **EINECS/ELINCS** Not Determined **ENCS** Not Determined **IECSC** Not Determined **KECL** Not Determined **PICCS** Not Determined **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Charles Mana	SARA 313 - Threshold Values %
Chemical Name	1.0
2-Butoxy Ethanol - 111-76-2	1.0
Triethylamine - 121-44-8	

SARA 311/312 Hazard Categories

Yes Acute health hazard Yes Chronic Health Hazard Yes Fire hazard No Sudden release of pressure hazard No Reactive Hazard

US State Regulations

is product may contain su Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
2-Butoxy Ethanol 111-76-2	X	X	X	-	-
Titanium Dioxide 13463-67-7	X	×	X	-	
Triethylamine 121-44-8	X	×	X	-	X
Silica, amorphous precipitated	X	X	X	-	
hanol, 2-(dimethylamino)- 108-01-0	X	×	X	-	-
Aluminum oxide (Al2O3) 1344-28-1	X	×	X	-	X

3800

Stoddard solvent, solvent	X	×	X	-	
naphta 8052-41-3				pr.	X
2-Propanol	X	X			
67-63-0 2-Methoxymethylethoxy propanol	X	X	X	. ~	
34590-94-8		X	X		X
Cumene 98-82-8	^		<u> </u>		×
Naphthalene	Х	×			<u> </u>
91-20-3 Ethylbenzene 100-41-4	X	×	X		

16. OTHER INFORMATION

Issue Date **Revision Date** 11-Apr-2015 11-Apr-2015

Revision Note

No information available

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet

WWATSONSTANDARD

SAFETY DATA SHEET

ISO 9001 - 2008

Issue Date 15-May-2015

Revision Date 15-May-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

3846

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard

616 Hite Road

Harwick PA, 15049

724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 4		
B IAITERADIC IIQUIGS	Elammable liquids	Cafegory 4
Skin corrosion/irritation Category 2		Category 2
Serious eve damage/eye irritation Category 2		Category 2

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H227 - Combustible liquid



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat and sparks - No Smoking

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

3846

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

	CAS No	Weight-%
Chemical Name		
Titanium Dioxide	13463-67-7	10 - 30
2-Butoxy Ethanol	111-76-2	10 - 30
	1333-86-4	0.1 - 1
Carbon Black	1333-00-4	

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

3846

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/furme/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m ³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	. TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Carbon Błack 1333-86-4	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH	Mexico: TWA 3.5 mg/m ³ Mexico: STEL 7 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

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Engineering Controls

Showers

Evewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eyelface protection

Wear safety glasses with side shields (or goggles)

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks · Method

Pensky-Martens Closed Cup (PMCC)

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid Amines

opaque, gray

Property

pН

Melting point/freezing point Boiling point / boiling range

Flash Point

Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density

Specific Gravity

Water solubility

Solubility in other solvents

Partition coefficient Autoignition temperature **Decomposition temperature**

Viscosity

Explosive properties Oxidizing properties

Values

No information available No information available

No information available

60.5 °C / 140.9 °F

No information available

No information available

No information available

No information available No information available No information available

1.15

Soluble in water

No information available No information available No information available

No information available No information available

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

No information available No information available No information available 9.58 lb/gal +/- 0.20 No information available

10. STABILITY AND REACTIVITY

Reactivity Not Applicable

Bulk density

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Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name Titanium Dioxide	> 10000 mg/kg (Rat)	-	
13463-67-7 2-Butoxy Ethanol	= 470 mg/kg (Rat)	= 99 mg/kg(Rabbit)	= 450 ppm (Rat) 4 h
111-76-2 Carbon Black	> 15400 mg/kg (Rat)	> 3 g/kg(Rabbit)	-
1333-86-4			

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

Germ cell mutagenicity

Carcinogenicity

No information available.

No information available.

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form. This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for

his product since it is a liquid

	this pro		OSHA	Mexico	
Chemical Name	ACGIH	IARC	NTP	USHA	incaico .
Titanium Dioxide	-	Group 2B	-	X	-
13463-67-7 2-Butoxy Ethanol	A3 -	Group 3	er er	-	
111-76-2 Carbon Black	A3	Group 2B		×	
1333-86-4					

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

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IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity STOT - single exposure No information available. No information available.

No information available.

STOT - repeated exposure Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0.90148174% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

12. ECOLOGICAL INFORMATION

Ecotoxicity

2.21639% of the mixture consists of components(s) of unknown hazards to the aquatic environment

2,21639% of the mixture consists	of components(s) of unknown in	Fish	Crustacea
Chemical Name	Algae/aquatic plants	tion so blanemic macrochinis	1000: 48 h Daphnia magna mg/L
2-Butoxy Ethanol	-	mg/L LC50 static 2950; 96 h	EC50 1698 - 1940: 24 (1 Daprilla
111-76-2		Lenomie macrochirus ma/L LC50	magna mg/L EC50
		pa-	5600: 24 h Daphnia magna mg/L
Carbon Black	-		EC50
1333-86-4		<u> </u>	***************************************

Persistence and degradability

No information available.

Bioaccumulation

No information available.

it o it is a second of the sec	
	- ffi - ant
	Partition coefficient
Chemical Name	
Offennicar Manie	0.81
	0.01
2-Butoxy Ethanol	
111-76-2	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Note:

DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2)"

DOT

UN/ID No.

NA1263

Proper shipping name Hazard Class

Paint, combustible Combustible liquid

Packing Group

111

TDG

Not regulated

MEX

Not regulated

3846

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA DSL/NDSL

Complies Not Determined Not Determined EINECS/ELINCS Not Determined

ENCS IECSC KECL PICCS AICS

Not Determined Not Determined Not Determined

Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical **SARA 313** orting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

the reporting requirements of t	he Act and Title 40 of the code of redeta, regulatory
or chemicals which are subject to the reporting requirements of t	SARA 313 - Threshold Values %
Chemical Name	O/AGC C.C.
	1.0
2-Butoxy Ethanol - 111-76-2	

SARA 311/312 Hazard Categories

Yes Acute health hazard Yes Chronic Health Hazard Yes Fire hazard No Sudden release of pressure hazard No Reactive Hazard

US State Regulations

product may contain sul Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
Titanium Dioxide 13463-67-7	X	X	X		**************************************
2-Butoxy Ethanol 111-76-2	X	×	X	-	
Triethylamine	X	×	X	-	×
Silica, amorphous precipitated 112926-00-8	Х	Х	X	-	
toddard solvent, solvent naphta 8052-41-3	Х	Х	X	-	- X
Numinum oxide (Al2O3) 1344-28-1	X	X	X	-	
hanol, 2-(dimethylamino)- 108-01-0	X	×	X	-	

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					X
2-Propanol 67-63-0	X	×	^		
Carbon Black	X	×	X	X	<u> </u>
1333-86-4 Cumene	X	×	×		
98-82-8 Naphthalene	X	X	×		X
91-20-3 Ethylbenzene 100-41-4	X .	X	X	-	X

16. OTHER INFORMATION

Issue Date Revision Date 15-May-2015 15-May-2015

Revision Note

No information available

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet

WWATSONSIA ISO 9001 - 2008

SAFETY DATA SHEET

Issue Date 13-Jul-2015

Revision Date 30-Sep-2015

Version 1.01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

3903

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard

616 Hite Road

Harwick PA, 15049

USA

+1-724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eve damage/eve irritation	Category 2

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

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IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in accordance with local regulations

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of in accordance with federal, state and local regulations

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-Butoxy Ethanol	111-76-2	10 - 30
Carbon Black	1333-86-4	1 - 5
2-Dimethylaminoethanol	108-01-0	1 - 5

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

3903

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Carbon Black 1333-86-4	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH	Mexico: TWA 3.5 mg/m³ Mexico: STEL 7 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

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Individual protection measures, such as personal protective equipment

Eye/face protection

Face protection shield. Tight sealing safety goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid

Amines opaque, black

Property

pΗ

Values

8.0-8.5

Melting point / freezing point

Boiling point / boiling range Flash Point

Evaporation rate Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density

Specific Gravity

Water solubility

Solubility in other solvents

Partition coefficient Autoignition temperature Decomposition temperature

Viscosity

Explosive properties Oxidizing properties

No information available No information available No information available

No information available

No information available

> 93.5 °C / > 200 °F

No information available

No information available

No information available

1.01

Soluble in water

No information available No information available

No information available No information available No information available

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%)

Density **Bulk density** No information available

No information available No information available 8.45 lb/gal +/- 0.20 No information available

10. STABILITY AND REACTIVITY

Reactivity Not Applicable

Chemical stability

Stable under normal conditions.

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Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Butoxy Ethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg(Rabbit)	
2-Dimethylaminoethanol 108-01-0	= 1803 mg/kg (Rat)	= 1220 mg/kg (Rabbit) = 1370 µL/kg (Rabbit)	= 1641 ppm (Rat) 4 h

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this

product since it is not in a respirable form.

ploduct since it is not in a respirate town.						
Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico	
2-Butoxy Ethanol 111-76-2	A3	Group 3	-	~	ar the state of th	
Carbon Black 1333-86-4	A3	Group 2B	-	×	4	

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity STOT - single exposure No information available. No information available.

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STOT - repeated exposure

Chronic toxicity

No information available.

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May

cause adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, lungs,

Respiratory system, Skin, Lymphatic System.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

1.51587009% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

3.5595% of the mixture consists of components(s) of unknown hazards to the aquatic environment

3.5595% Of the mixture consist	Algae/aquatic plants	Fish	Crustacea
2-Butoxy Ethanol 111-76-2	Aigae/aquatic prime	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
Carbon Black 1333-86-4	-		5600: 24 h Daphnia magna mg/L EC50
2-Dimethylaminoethanol	35: 72 h Desmodesmus subspicatu mg/L EC50	s 81: 96 h Pirmephales promelas mg/L LC50 static	98.77: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Butoxy Ethanol	0.81
111-76-2	
2-Dimethylaminoethanol	-0.55
108-01-0	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Not regulated DOT

Not regulated <u>TDG</u>

Not regulated MEX

Not regulated ATA

Not regulated IMDG

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Not Determined DSL/NDSL Not Determined **ENCS** Not Determined **IECSC** Not Determined KECL Not Determined **PICCS** Not Determined AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical micals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Section 515 of the section requirements of the	e Act and Title 40 of the Gode of Total
or chemicals which are subject to the reporting requirements of the	SARA 313 - Threshold Values %
Chemical Name	1.0
2-Butoxy Ethanol - 111-76-2	1.0
Cobalt bis(2-ethylhexanoate) - 136-52-7	

SARA 311/312 Hazard Categories

Yes Acute health hazard Yes Chronic Health Hazard No Fire hazard No Sudden release of pressure hazard No Reactive Hazard

US State Regulations

This product may contain substances regulated by state right-to-know regulations Pennsylvania -Pennsylvania -Pennsylvania Massachusetts Environmental **New Jersey** Special Hazardous Chemical Name **Hazard List** Substances X X Χ 2-Butoxy Ethanol 111-76-2 X X Х X Carbon Black 1333-86-4 $\overline{\mathsf{x}}$ Cobalt bis(2-ethylhexanoate) X 136-52-7 X Χ X 2-Dimethylaminoethanol 108-01-0 Χ X X Stoddard solvent, solvent naphta 8052-41-3 X X X 2-Methoxymethylethoxy propanol 34590-94-8

16. OTHER INFORMATION

3903

Issue Date **Revision Date Revision Note** 13-Jul-2015 30-Sep-2015 SDS sections updated 239111415

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End of Safety Data Sheet



SAFETY DATA SHEET

ISO 9001 - 2008

Issue Date 11-Apr-2015

Revision Date 11-Apr-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

3990

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard 616 Hite Road Harwick PA, 15049

724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Specific treatment (see .? on this label)

3990

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

	CAS No	Weight-%
Chemical Name	111-76-2	10 - 30
2-Butoxy Ethanol Copper(III) phthalocyanine	147-14-8	1-5
Titanium Dioxide	13463-67-7	1 - 5
Triethylamine	121-44-8	1-5
Carbon Black	1333-86-4	0.1 - 1

4. FIRST AID MEASURES

First aid measures

Eve contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No.

3990

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
Chemical Name 2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Copper(III) phthalocyanine 147-14-8	TWA: 1 mg/m³ Cu dust and mist	-	IDLH: 100 mg/m³ Cu dust and mist TWA: 1 mg/m³ Cu dust and mist	
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³

3990

Triethylamine 121-44-8	STEL: 3 ppm TWA: 1 ppm S*	TWA: 25 ppm TWA: 100 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 40 mg/m³ (vacated) STEL: 15 ppm (vacated) STEL: 60 mg/m³	IDLH: 200 ppm	Mexico: TWA 25 ppm Mexico: TWA 100 mg/m³ Mexico: STEL 40 ppm Mexico: STEL 160 mg/m³
Carbon Black 1333-86-4	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH	Mexico: TWA 3.5 mg/m³ Mexico: STEL 7 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid Amines opaque, blue

Property

Values

Remarks • Method

Melting point/freezing point

Boiling point / boiling range Flash Point

Evaporation rate Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density Specific Gravity

Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature

8.0-8.5

No information available No information available > 94 °C / > 201 °F

No information available No information available

No information available No information available No information available No information available

1.03 Soluble in water

No information available No information available No information available Pensky-Martens Closed Cup (PMCC)

3990

Decomposition temperature

Viscosity

Explosive properties Oxidizing properties No information available No information available

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

No information available No information available No information available

8.55 lb/gal +/- 0.2 No information available

10. STABILITY AND REACTIVITY

Reactivity

Bulk density

Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name	= 470 mg/kg (Rat)	= 220 mg/kg(Rabbit)	= 450 ppm (Rat) 4 h
2-Butoxy Ethanol 111-76-2	= 4,0 mg/kg (100c)		
Fitanium Dioxide	> 10000 mg/kg (Rat)	-	
13463-67-7	= 460 mg/kg (Rat)	= 416 mg/kg(Rabbit)= 570 μL/kg	= 1250 ppm (Rat) 4 h
riethylamine 121-44-8	= 400 mg/kg (/w.//	(Rabbit)	<u></u>
Carbon Black	> 15400 mg/kg (Rat)	> 3 g/kg(Rabbit)	***
1333-86-4			

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

Germ cell mutagenicity

Carcinogenicity

No information available.

No information available.

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B). This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product

since it is not in a respirable form.

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
2-Butoxy Ethanol 111-76-2	A3	Group 3	**		*
Titanium Dioxide 13463-67-7	-	Group 2B		×	*
Carbon Black 1333-86-4	A3	Group 2B		X	

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure Aspiration hazard

No information available.

No information available. No information available.

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

1.91028762% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

2.09594% of the mixture consists of components(s) of unknown hazards to the aquatic environment

19594% Of the mixture consists	Algae/aquatic plants	Fish	Crustacea
2-Butoxy Ethanol 111-76-2	Aigae aquato panto	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
Copper(III) phthalocyanine		100: 48 h Oryzias latipes mg/L LC50 static	-
Triethylamine 121-44-8	-	43.7: 96 h Pimephales promelas mg/L LC50 static	200: 48 h Daphnia magna mg/L EC50
Carbon Black 1333-86-4	_		5600: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Butoxy Ethanol	0.81
111-76-2	
Copper(III) phthalocyanine	6,6
147-14-8	
Triethylamine	1.45
121-44-8	

3990

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Not regulated DOT

Not regulated <u>TDG</u>

Not regulated MEX

Not regulated IATA

Not regulated IMDG

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Not Determined DSL/NDSL Not Determined **EINECS/ELINCS** Not Determined **ENCS** Not Determined **IECSC** Not Determined **KECL** Not Determined **PICCS** Not Determined **AICS**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Of Chefficals Willor are dubject to the 1-p-1-3	SARA 313 - Threshold Values %
Chemical Name	1.0
2-Butoxy Ethanol - 111-76-2	10
Copper(III) phthalocyanine - 147-14-8	1 0
Triethylamine - 121-44-8	I.V

SARA 311/312 Hazard Categories

	Yes
Acute health hazard	
Chronic Health Hazard	Yes
Fire hazard	Yes
	No
Sudden release of pressure hazard	,,,,

3990

Reactive Hazard

No

US State Regulations

his product may contain su Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
2-Butoxy Ethanol 111-76-2	X	X	X	-	-
Copper(III) phthalocyanine	X	-	X	-	
Titanium Dioxide 13463-67-7	X	X	X	-	*
Triethylamine 121-44-8	X	×	X	-	X
Ethanol, 2-(dimethylamino)- 108-01-0	X	×	X	*	H-
2-Propanol 67-63-0	X	×	X	-	X
Carbon Black 1333-86-4	X	×	X	×	
Stoddard Solvent, solvent naphta 8052-41-3	X	Х	X	-	-
2-Methoxymethylethoxy propanol 34590-94-8	X	X	. X	· .	-
Propylene Glycol 57-55-6	X		Х		-

16. OTHER INFORMATION

Issue Date

11-Apr-2015

Revision Date

11-Apr-2015

Revision Note

No information available

Disclaimer

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet

(50 9001

SAFETY DATA SHEET

Issue Date 26-Jun-2015

Revision Date 22-Mar-2017

Version 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

6101

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard

616 Hite Road

Harwick PA, 15049

USA

+1-724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec USA 1-800-424-9300

Chemtrec International +1 703-741-5970

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

la installation	n	Category 2	
Serious eye damage/eye irritation]]	Category 1	
ISkin sensitization			

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment (see Section 4 / First Aid on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

6101

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in accordance with local regulations

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

	CAS No	Weight-%
Chemical Name	13463-67-7	10 - 30
Titanium Dioxide	111-76-2	5 - 10
2-Butoxy Ethanol	112-34-5	1-5
Ethanol, 2-(butoxyethoxy)-	126-86-3	0.1 - 1
Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-,	120-00-0	<u> </u>

4. FIRST AID MEASURES

First aid measures

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Wash off immediately with soap and plenty of water while removing all contaminated Skin Contact

clothes and shoes. If symptoms persist, call a physician.

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a Inhalation

physician.

If swallowed, call a poison control center or physician immediately. Never give anything by Ingestion

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

6101

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Ot I Nome	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
Chemical Name Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	1DLH: 5000 mg/m³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Ethanol, 2-(butoxyethoxy)-	TWA: 10 ppm_inhalable	- .	- .	
112-34-5	fraction and vapor	<u> </u>		

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

6101

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid

Amines

opaque, White

Property

nН

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

Melting point / freezing point

Boiling point / boiling range Flash Point

Evaporation rate

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density

Specific Gravity Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature

Decomposition temperature Viscosity

Explosive properties Oxidizing properties <u>Values</u>

No information available No information available

> 94 °C

> 94 °C / > 201 °F

No information available No information available

No information available No information available No information available No information available

1.26

Soluble in water

No information available No information available No information available No information available No information available

No information available
No information available

Other Information

Softening point Molecular weight VOC Content (%)

Density Bulk density No information available No information available No information available 10.50 lb/gal +/- 0.20 No information available

10. STABILITY AND REACTIVITY

Reactivity
Not Applicable

Chemical stability

6101

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium Dioxide	> 10000 mg/kg (Rat)	-	-
13463-67-7 2-Butoxy Ethanol	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
111-76-2 Ethanol, 2-(butoxyethoxy)-	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	÷
112-34-5		<u> </u>	

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity No information available.

No information available.

Carcinogenicity

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). This product contains titanium dioxide which is

classified as a possible carcinogen when present as respirable dust. This is not relevant for

this product since it is a liquid

	uns pro	JULICE SHILLE ICID A HOLD			11
Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
Titanium Dioxide		Group 2B	-	X	-
13463-67-7		· ·			
2-Butoxy Ethanol	A3	Group 3	-	-	~
111 76 2					

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

6101

Reproductive toxicity

STOT - single exposure STOT - repeated exposure Chronic toxicity

No information available. No information available.

No information available.

May cause adverse effects on the bone marrow and blood-forming system. May cause

adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, lungs,

Respiratory system, Skin. No information available.

Aspiration hazard

Numerical measures of toxicity - Product Information

1.58264183 % of the mixture consists of ingredient(s) of unknown toxicity

Unknown Acute Toxicity The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

2.1784 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

2.1784 % of the mixture consists	of component(s) of unknown na-	Fish	Crustacea
Chemical Name 2-Butoxy Ethanol 111-76-2	Algae/aquatic plants	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
Ethanol, 2-(butoxyethoxy)- 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	100: 48 h Daphnia magna mg/L EC50 2850: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

,	
	Partition coefficient
Chemical Name	0.81
2-Butoxy Ethanol	0.01
111-76-2	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied

14. TRANSPORT INFORMATION

Not regulated DOT Not regulated TDG Not regulated MEX Not regulated IATA

Not regulated <u>IMDG</u>

	15. REGULATORY INFORMA	TION
International Inventories TSCA DSL/NDSL ENCS IECSC KECL PICCS AICS	Complies Not Determined	

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

or chemicals which are subject to the reporting requirements of the	SARA 313 - Threshold Values %
Chemical Name	1.0
2-Butoxy Ethanol - 111-76-2	1.0
Ethanol, 2-(butoxyethoxy) 112-34-5	

SARA 311/312 Hazard Categories

RA 311/312 Hazaru Calegories	Yes
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No.
Sudden release of pressure hazard	No
Reactive Hazard	,,,,

US State Regulations This product may contain substances regulated by state right-to-know regulations Pennsylvania -Pennsylvania -Pennsylvania Massachusetts Chemical Name **New Jersey** Environmental Special Hazardous Hazard List Substances Х X X Titanium Dioxide 13463-67-7 X X Χ 2-Butoxy Ethanol 111-76-2 X X Ethanol, 2-(butoxyethoxy)-112-34-5 X X 2-Dimethylaminoethanol X 108-01-0 Х X X Silica, amorphous precipitated X 112926-00-8 Χ X X Aluminum oxide (Al2O3) Х 1344-28-1 X Х X Triethylamine 121-44-8 X X X Stoddard solvent, solvent naphta X 8052-41-3 Χ X Х Ethylbenzene 100-41-4 X Distillates (petroleum), solvent-refined light

Revision Date 22-Mar-2017 6101 paraffinic 64741-89-5

16. OTHER INFORMATION

Issue Date Revision Date 26-Jun-2015 22-Mar-2017

Revision Note

SDS sections updated

1,2

3,9

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet

W WATSON STANDARD

SAFETY DATA SHEET

issue Date 08-Jun-2015

Revision Date 08-Jun-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

6223

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard

616 Hite Road

Harwick PA, 15049

724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

		Category 2	
	kin corrosion/irritation	Category 2	
5	erious eye damage/eye irritation	1	

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

6223

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in accordance with local regulations

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of in accordance with federal, state and local regulations

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

The second secon	CAS No	Weight-%
Chemical Name		10 - 30
2-Butoxy Ethanol	111-76-2	
Trade Secret Additive	Proprietary	1-5
Titanium Dioxide	13463-67-7	1-5
Ethanol, 2-(dimethylamino)-	108-01-0	1 - 5

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

6223

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Ob is-al Nomo	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
Chemical Name 2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Trade Secret Additive	TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ fume TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m³ fume and total dust Iron oxide (vacated) TWA: 5 mg/m³ respirable fraction regulated under Rouge		Mexico: TWA 5 mg/m³ Mexico: STEL 10 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

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Appropriate engineering controls

Engineering Controls

Showers

Evewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid Amines

opaque, red

Property

Flash Point

Evaporation rate

рΗ Melting point/freezing point

No information available

Flammability (solid, gas)

Boiling point / boiling range

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure

Vapor density **Specific Gravity**

Water solubility

Solubility in other solvents Partition coefficient

Autoignition temperature Decomposition temperature

Viscosity

Explosive properties Oxidizing properties Values

8.0-8.5

No information available

> 94 °C / > 201 °F

No information available No information available

No information available No information available No information available No information available

1.08

Soluble in water

No information available No information available

No information available

Other Information

Softening point Molecular weight VOC Content (%)

Density **Bulk density** No information available No information available No information available 8.97 lb/gal +/- 0.20 No information available

10. STABILITY AND REACTIVITY

6223

Reactivity

Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name		= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
2-Butoxy Ethanol 111-76-2	= 470 mg/kg (Rat)	= 99 Hig/kg (Nabbit)	
Trade Secret Additive	> 10000 mg/kg (Rat)	-	~
Hade Secret Additive			
Titanium Dioxide	> 10000 mg/kg (Rat)	-	
13463-67-7	= 1803 mg/kg (Rat)	= 1220 mg/kg (Rabbit) = 1370	= 1641 ppm (Rat) 4 h
Ethanol, 2-(dimethylamino)- 108-01-0	= 1003 flighty (11ct)	μĽ/kg (Rabbit)	

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B). This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for

this product since it is a liquid

	this pro	OSHA	Mexico		
Chemical Name	ACGIH	IARC	NTP	USHA	10,0,100
	A3	Group 3	-	-	- 1
2-Butoxy Ethanol	73	0.004			
111-76-2				-	-
Trade Secret Additive	~	Group 3	_		
				<u> </u>	1

6223

			· · · · · · · · · · · · · · · · · · ·	Y	
		Group 2B	-	^	
Titanium Dioxide	-	0.00			
13463-67-7	l	al Industrial Hygienist	al		
10.100	C /	al inductrial mydienial	3/		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available. No information available.

STOT - single exposure STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

4.94801385% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12 ECOLOGICAL INFORMATION

Ecotoxicity

Ē	COTOXICITA			t
ş	3 17085% of the mixture consists	s of components(s) of unknown n	azards to the aquatic environmen Fish	Crustacea
	Chemical Name	Algae/aquatic plants	1490: 96 h Lepomis macrochirus	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia
	2-Butoxy Ethanol 111-76-2		ing/L 2000 state 2000	magna mg/L EC50
		25, 72 h Desmodesmus subspicatus	81: 96 h Pimephales promelas mg/L	98.77: 48 h Daphnia magna mg/L FC50
	Ethanol, 2-(dimethylamino)- 108-01-0	mg/L EC50	LC50 static	

Persistence and degradability

No information available.

Bioaccumulation

1	No information available.	
		Partition coefficient
ſ	Chemical Name	0.81
ł	2-Butoxy Ethanol	
1	111-76-2	-0.55
1	Ethanol, 2-(dimethylamino)-	
	108-01-0	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

6223

IATA

Not regulated

<u>IMDG</u>

Not regulated

15. REGULATORY INFORMATION

International Inventories Complies **TSCA** Not Determined DSL/NDSL Not Determined EINECS/ELINCS Not Determined **ENCS** Not Determined **IECSC** Not Determined KECL Not Determined **PICCS** Not Determined AICS

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chernical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Section 515 of the mineral section requirements of the	ne Act and Title 40 of the Gods
or chemicals which are subject to the reporting requirements of tr	SARA 313 - Threshold Values %
	10
Chemical Name	1.0
1447763	
2-Butoxy Ethanol - 111-76-2	

SARA 311/312 Hazard Categories

Yes Acute health hazard Yes Chronic Health Hazard Yes Fire hazard No Sudden release of pressure hazard No Reactive Hazard

S State Regulations his product may contain su	bstances regulate	d by state right-to-know	w regulations Pennsylvania	Pennsylvania -	Pennsylvania -
Chemical Name	New Jersey	Massachusetts	, 6	Special Hazardous Substances	Environmental Hazard List
			X	~	-
2-Butoxy Ethanol	X	^			
111-76-2	X	X	X	- 1	
Iron oxide (Fe2O3)	^				
1309-37-1	X	X	X	-	
Titanium Dioxide	^				*
13463-67-7		X	X	-	
Ethanol, 2-(dimethylamino)- 108-01-0	X				
	Х	X	X		
Stoddard solvent, solvent naphta					
8052-41-3					
Distillates (petroleum),	-	T X	-		
Solvent-refined light					
paraffinic					<u></u>
64741-89-5					

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				Ÿ	X	
Chromium 7440-47-3	X	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	^	,,	
7440-47-3				Y	X	
Nickel	Х	X	^	^		
7440-02-0				1	<u></u>	

16. OTHER INFORMATION

Issue Date

08-Jun-2015

Revision Date

08-Jun-2015

Revision Note

No information available

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End of Safety Data Sheet

W WATSON STA

SAFETY DATA SHEET

Issue Date 09-Dec-2015

Revision Date 09-Dec-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

6229

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard

616 Hite Road

Harwick PA, 15049

USA

+1-724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment (see .? on this label)

6229

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in accordance with local regulations

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Observation I Name	CAS No	Weight-%
Chemical Name	111-76-2	10 - 30
2-Butoxy Ethanol Iron oxide (Fe2O3)	1309-37-1	5 - 10
2-Dimethylaminoethanol	108-01-0	1 - 5
Trade Secret Additive	Proprietary	0.1 - 1

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

6229

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids, Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

		OSHA PEL	NIOSH IDLH	Exposure Limits
Chemical Name 2-Butoxy Ethanol 111-76-2	ACGIH TLV TVVA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Iron oxide (Fe2O3) 1309-37-1	TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ fume TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m³ fume and total dust Iron oxide (vacated) TWA: 5 mg/m³ respirable fraction regulated under Rouge	IDLH: 2500 mg/m³ Fe dust and fume TWA: 5 mg/m³ Fe dust and fume	Mexico: TWA 5 mg/m³ Mexico: STEL 10 mg/m³

6229

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Evelface protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor

Color

liquid

Amines

opaque, red

Property

Hq

Melting point / freezing point

Boiling point / boiling range

Flash Point Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density

Specific Gravity Water solubility

Solubility in other solvents

Partition coefficient Autoignition temperature Decomposition temperature

Viscosity

Explosive properties Oxidizing properties

Values

8.0-8.5

No information available No information available

> 93.5 °C / > 200 °F

No information available No information available

No information available No information available No information available No information available

1.10

Soluble in water

No information available No information available No information available No information available No information available

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%)

Density **Bulk density** No information available No information available No information available 9.20 lb/gal +/- 0.20 No information available Remarks · Method

Pensky-Martens Closed Cup (PMCC)

6229

10. STABILITY AND REACTIVITY

Reactivity

Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name)	= 450 ppm (Rat) 4 h
2-Butoxy Ethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	
Iron oxide (Fe2O3)	> 10000 mg/kg(Rat)	. • • •	
1309-37-1 2-Dimethylaminoethanol	= 1803 mg/kg (Rat)	= 1220 mg/kg (Rabbit) = 1370 µL/kg (Rabbit)	= 1641 ppm (Rat) 4 h
108-01-0			······································

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available. No known carcinogens are present at greater than 0.1%.

Carcinogenicity	INO KITO	Wit caroniogene are i		OSHA	Mexico
Chemical Name	ACGIH	IARC	NTP	USHA	1007110
2-Butoxy Ethanol	A3	Group 3	-	-	-
111-76-2 Iron oxide (Fe2O3)		Group 3	- '		-
1309-37-1			<u></u>	<u> </u>	1

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

6229

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Reproductive toxicity STOT - single exposure No information available. No information available.

STOT - repeated exposure

No information available.

Chronic toxicity

May cause adverse effects on the bone marrow and blood-forming system. May cause

adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, Respiratory

system, Skin.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0.17257148% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

9.53441% of the mixture consists of components(s) of unknown hazards to the aquatic environment

ŗ	9.0344 i /6 Of the mixture consists	Algae/aquatic plants	Fish	Crustacea
	Chemical Name 2-Butoxy Ethanol 111-76-2		Lepomis macrochirus mg/L LC50	EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
	2-Dimethylaminoethanol 108-01-0		81: 96 h Pimephales promelas mg/L LC50 static	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Butoxy Ethanol	0.81
111-76-2	-0.55
2-Dimethylaminoethanol	-0.00
108-01-0	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Not regulated DOT

Not regulated TDG

Not regulated MEX

Not regulated ATA

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IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA DSL/NDSL **ENCS IECSC** KECL

Complies Not Determined Not Determined

Not Determined Not Determined Not Determined Not Determined

Legend:

PICCS

AICS

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical orting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

or chemicals which are subject to the reporting requirements of a	0.7101.071
Of Chermons Witten are started	SARA 313 - Threshold Values %
Co. C. al bluman	OATO TO THE PART OF THE PART O
Chemical Name	10
	1.0
2-Butoxy Ethanol - 111-76-2	
Z Dutoký sa trans	

SARA 311/312 Hazard Categories

Yes Acute health hazard Y.es Chronic Health Hazard No Fire hazard No Sudden release of pressure hazard No Reactive Hazard

US State Regulations

Distillates (petroleum), solvent-refined light paraffinic 64741-89-5

This product may contain substances regulated by state right-to-know regulations Pennsylvania -Pennsylvania -Pennsylvania Massachusetts Chemical Name **New Jersey** Environmental Special Hazardous **Hazard List** Substances X X Х 2-Butoxy Ethanol 111-76-2 Х Х X Iron oxide (Fe2O3) 1309-37-1 X Χ Х 2-Dimethylaminoethanol 108-01-0 X Χ X Stoddard solvent, solvent naphta 8052-41-3 X X X Ethylbenzene Х 100-41-4

X

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16. OTHER INFORMATION

Issue Date

09-Dec-2015

Revision Date Revision Note 09-Dec-2015 Not Applicable

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet



SAFETY DATA SHEET

ISO 9001 - 2008

Issue Date 25-Aug-2015

Revision Date 25-Aug-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

6444

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

724-275-1000

Watson Industrial Coatings Co. D.B.A Watson Standard 616 Hite Road Harwick PA, 15049

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in accordance with local regulations

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

	CAS No	Weight-%
Chemical Name		10 - 30
Titanium Dioxide	13463-67-7	, , , , , , , , , , , , , , , , , , ,
2-Butoxy Ethanol	111-76-2	5 - 10
Trade Secret Pigment	Proprietary	1 - 5
Ethanol, 2-(butoxyethoxy)-	112-34-5	1 - 5
2-Dimethylaminoethanol	108-01-0	1-5
Trade Secret Additive	Proprietary	0.1 - 1

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

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Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7, HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Trade Secret Pigment	TWA: 1 mg/m³ Fe	(vacated) TWA: 1 mg/rn³ Fe	TWA: 1 mg/m³ Fe	Mexico: TWA 1 mg/m³ Mexico: STEL 2 mg/m³
Ethanol, 2-(butoxyethoxy)- 112-34-5	TWA: 10 ppm_inhalable fraction and vapor	-	-	•

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

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Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eyelface protection

Face protection shield. Tight sealing safety goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralis,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks · Method

Pensky-Martens Closed Cup (PMCC)

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid

Property

pН

Values_ 8.0-8.5

Melting point / freezing point Boiling point / boiling range

Flash Point **Evaporation rate**

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density

Specific Gravity

Water solubility

Solubility in other solvents Partition coefficient

Autoignition temperature Decomposition temperature

Viscosity

Explosive properties Oxidizing properties Amines

opaque, yellow

No information available No information available

> 94 °C / > 200 °F No information available

No information available

No information available No information available No information available No information available

1.12

Soluble in water

No information available No information available

No information available

Other Information

Softening point Molecular weight VOC Content (%)

Density **Bulk density** No information available No information available No information available 9.30 lb/gal +/- 0.20 No information available

10. STABILITY AND REACTIVITY

6444

Reactivity

Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization does not occur. Hazardous polymerization

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)		-
2-Butoxy Ethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Frade Secret Pigment	> 10000 mg/kg (Rat)	•	-
Ethanol, 2-(butoxyethoxy)- 112-34-5	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	_
2-Dimethylaminoethanol 108-01-0	= 1803 mg/kg (Rat)	= 1220 mg/kg(Rabbit)= 1370 μL/kg(Rabbit)	= 1641 ppm (Rat) 4 h

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

Germ cell mutagenicity

Carcinogenicity

No information available. No information available.

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B). This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for

this product since it is a liquid.

Unit product shreet NTD OSHA Mexico					
Chemical Name	ACGIH	IARC	NTP	OSHA	Wexico
Titanium Dioxide	*	Group 2B	-	X	***
13463-67-7	1			<u> </u>	<u> </u>

6444

			·*	
		· · · · · · · · · · · · · · · · · · ·		
D. D. Amor Ethapol A3	Group 3	~	*	
2-Butoxy Entanol				
111-76-2	Li taratel Livelonic	fel		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans Not classifiable as a human carcinogen NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure Chronic toxicity

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May

cause adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, lungs,

Respiratory system, Skin, Bladder, Gastrointestinal tract (GI).

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0.53269863% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

5.36348% of the mixture consists of components(s) of unknown hazards to the aquatic environment

5 363	48% of the mixture consists	of components(s) of unknown n	Figh	Crustacea
	Chemical Name 2-Butoxy Ethanol	Algae/aquatic plants	1490: 96 h Lepomis macrochirus	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia
	2-Butoxy Ethanol 111-76-2		Lepomis macrochirus mg/L LC50	magna mg/L EC50
E	Ethanol, 2-(butoxyethoxy)- 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	ing, E coop of	100: 48 h Daphnia magna mg/L EC50 2850: 24 h Daphnia magna mg/L EC50
	2-Dimethylaminoethanol 108-01-0	35: 72 h Desmodesmus subspicatus mg/L EC50	81: 96 h Pimephales promelas mg/L LC50 static	98.77: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

No information available.	
	Partition coefficient
Chemical Name	0.81
2-Butoxy Ethanol	2.0
111-76-2	-0.55
2-Dimethylaminoethanol	-0.00
108-01-0	
100-01-0	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label

warnings even after container is emptied.

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14. TRANSPORT INFORMATION

Not regulated DOT Not regulated TDG

Not regulated MEX

Not regulated IATA

Not regulated IMDG

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Not Determined DSL/NDSL Not Determined **ENCS** Not Determined **IECSC** Not Determined **KECL** Not Determined **PICCS** Not Determined **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical orting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

or chemicals which are subject to the reporting requirements of th	e Act and Title 40 of the Code of rederal regulations
or chemicals which are subject to the reporting require	SARA 313 - Threshold Values %
Chemical Name	10
2-Butoxy Ethanol - 111-76-2	1.0
Ethanol 2-(butoxyethoxy) 112-34-5	

SARA 311/312 Hazard Categories

RA STITISTE TREETING OUTCOME.	Yes
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No.
Sudden release of pressure hazard	
Reactive Hazard	No

US State Regulations

s product may contain su Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
Titanium Dioxide 13463-67-7	X	X	×	•	-
2-Butoxy Ethanol 111-76-2	X	×	Х	-	
hanol, 2-(butoxyethoxy)- 112-34-5	X	-	X	-	

6444

2-Dimethylaminoethanol	X	X	X	-	
108-01-0		V	X	_	•
Silica, amorphous precipitated	X	^			
112926-00-8			X	May .	X
Aluminum oxide (Al2O3) 1344-28-1	X	^			-
Stoddard solvent, solvent	X	X	X \	ev.	
naphta	• •				
8052-41-3			X	M4	X
Ethylbenzene 100-41-4	X	^			
Distillates (petroleum), solvent-refined light paraffinic 64741-89-5	*	X	-		

16. OTHER INFORMATION

Issue Date **Revision Date** 25-Aug-2015 25-Aug-2015

Revision Note

No information available

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet

SAFETY DATA SHEET

iso 9001

Issue Date 08-Nov-2016

Revision Date 08-Nov-2016

Version 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

6520

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard

616 Hite Road

Harwick PA, 15049

USA

+1-724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec USA 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment (see section 4/first aid on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in accordance with local regulations

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

	CAS No	Weight-%
Chemical Name	111-76-2	10 - 30
2-Butoxy Ethanol Iron hydroxide oxide (Fe(OH)O)	20344-49-4	1 - 5
Titanium Dioxide	13463-67-7	1-5
2-Dimethylaminoethanol	108-01-0	1-5
Ethanol, 2-(butoxyethoxy)-	112-34-5	1-5
Trade Secret Additive	Proprietary	<u> </u>

4. FIRST AID MEASURES

First	aid mea <u>sures</u>

Eve contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

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Explosion data
Sensitivity to Mechanical Impact No.
Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Iron hydroxide oxide (Fe(OH)O) 20344-49-4	TWA: 1 mg/m³ Fe	(vacated) TWA: 1 mg/m³ Fe	TWA: 1 mg/m³ Fe	Mexico: TWA 1 mg/m³ Mexico: STEL 2 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³
Ethanol, 2-(butoxyethoxy)- 112-34-5	TWA: 10 ppm inhalable fraction and vapor	-	-	

NIOSH IDLH Immediately Dangerous to Life or Health

6520

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Face protection shield. Tight sealing safety goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9, PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid **Amines**

opaque, green

Property

Melting point / freezing point

> 36.0 °C

Boiling point / boiling range Flash Point

Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

Vapor pressure

Vapor density

Specific Gravity

Water solubility

Solubility in other solvents

Partition coefficient

Autoignition temperature

Decomposition temperature

Oxidizing properties

Viscosity **Explosive properties** Values

No information available

No information available

> 93.5 °C / > 200 °F

No information available

No information available

No information available

No information available No information available

No information available

1.05

Soluble in water

No information available

No information available

No information available No information available

No information available

No information available

No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

Bulk density

No information available No information available No information available 8.75 lb/gal +/- 0.20 No information available

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10. STABILITY AND REACTIVITY

Reactivity

Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

	A LIBER	Dermal LD50	Inhalation LC50
Chemical Name	Oral LD50		= 450 ppm (Rat) 4 h
2-Butoxy Ethanol	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	- 400 pp. (100)
111-76-2			
ron hydroxide oxide (Fe(OH)O)	> 10000 mg/kg (Rat)	-	
20344-49-4			
Titanium Dioxide	> 10000 mg/kg(Rat)	-	
13463-67-7		= 1220 mg/kg (Rabbit) = 1370	= 1641 ppm (Rat) 4 h
2-Dimethylaminoethanol	= 1803 mg/kg (Rat)	= 1220 mg/kg (Rabbit) = 1370 µL/kg (Rabbit)	, o . , pp ,
108-01-0	2004 (Dal)	= 2700 mg/kg (Rabbit)	**
Ethanol, 2-(butoxyethoxy)-	= 3384 mg/kg (Rat)	- 2700 mg/kg (1420m)	
112-34-5			

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

Chemical Name

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains titanium dioxide in a non-respirable form. Inhalation of un-bound titanium dioxide cannot reasonably be expected to occur through the use of this product. Titanium dioxide is only classified as a carcinogen by respiratory route of exposure.

Mexico **OSHA** NTP IARC **ACGIH**

6520

			·	······································	T
2-Butoxy Ethanoi	A3	Group 3	- ,	-	-
111-76-2		<u> </u>			
Titanium Dioxide	-	Group 2B	-	X	-
13463-67-7			<u> </u>		<u> </u>

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure Chronic toxicity No information available. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure. May cause adverse effects on the bone marrow and blood-forming system. May

cause adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, lungs,

Respiratory system, Skin, Gastrointestinal tract (GI).

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

1.19650614 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

3.26335 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Butoxy Ethanol 111-76-2	-	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
2-Dimethylaminoethanol 108-01-0	35: 72 h Desmodesmus subspicatus mg/L EC50	LC50 static	EC20
Ethanol, 2-(butoxyethoxy)- 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	100: 48 h Daphnia magna mg/L EC50 2850: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Butoxy Ethanol	0.81
111-76-2	
2-Dimethylaminoethanol	-0.55
108-01-0	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

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14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

Complies

DSL/NDSL

Not Determined

ENCS

Not Determined

IECSC

Not Determined Not Determined

KECL PICCS

Not Determined

AICS

Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical als which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
2-Butoxy Ethanol - 111-76-2	1.0
Ethanol, 2-(butoxyethoxy) 112-34-5	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

US State Regulations

photogogo regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
2-Butoxy Ethanol 111-76-2	X	×	X	-	
Titanium Dioxide 13463-67-7	X	×	X	-	
2-Dimethylaminoethanol 108-01-0	X	×	X		

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Ethanol, 2-(butoxyethoxy)- 112-34-5	Х	-	X	-	-
Stoddard solvent, solvent naphta 8052-41-3	X	X	X	-	-
Copper(III) phthalocyanine 147-14-8	X	-	X	-	
Ethylbenzene 100-41-4	X	×	X	-	Χ
Distillates (petroleum), solvent-refined light paraffinic 64741-89-5	-	X			-

16. OTHER INFORMATION

Issue Date

08-Nov-2016

Revision Date Revision Note 08-Nov-2016 Not Applicable

Disclaimer

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet

W WATSON STANDARD

SAFETY DATA SHEET

ISO 9001 - 2008

Issue Date 25-Aug-2015

Revision Date 25-Aug-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

6554

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard

616 Hile Road Harwick PA, 15049 724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Category 2	
Chin correction/irritation	
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1	
Skin sensitization Category 1	

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irrītation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breatning dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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IF ON SKIN: Wash with plenty of soap and water Take off contaminated dothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in accordance with local regulations

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3, COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-Butoxy Ethanol	111-76-2	10 - 30
Trade Secret Pigment	Proprietary	1 - 5
Titanium Dioxide	13463-67-7	1-5
2-Dimethylaminoethanol	108-01-0	1 - 5
Carbon Black	1333-86-4	0.1 - 1
Trade Secret Additive	Proprietary	0.1 - 1

4 FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

EIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

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<u>Protective equipment and precautions for firefighters</u>
Wear self-contained breathing apparatus and protective suit.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m ³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m ³
Trade Secret Pigment	TWA: 1 mg/m³ Fe	(vacated) TWA: 1 mg/m³ Fe	TWA: 1 mg/m³ Fe	Mexico: TWA 1 mg/m³ Mexico: STEL 2 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³
Carbon Black 1333-86-4	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH	Mexico: TWA 3.5 mg/m³ Mexico: STEL 7 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

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Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Face protection shield. Tight sealing safety goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralis,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor

Color

liquid Amines

opaque, green

Property

рΗ

Melting point / freezing point

Boiling point / boiling range Flash Point

Evaporation rate

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit:

Lower flammability limit: Vapor pressure

Vapor density Specific Gravity

Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature

Decomposition temperature Viscosity

Explosive properties
Oxidizing properties

•

Values 8.0-8.5

No information available No information available > 94 °C / > 200 °F

No information available No information available

No information available No information available No information available

No information available 1.04

Soluble in water

No information available No information available No information available No information available No information available

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

Bulk density

No information available No information available No information available 8.70 lb/gal +/- 0.20 No information available

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10. STABILITY AND REACTIVITY

Reactivity

Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of imitating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Butoxy Ethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Trade Secret Pigment	> 10000 mg/kg (Rat)	*	*
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)		*
2-Dimethylaminoethanol 108-01-0	= 1803 mg/kg (Rat)	= 1220 mg/kg (Rabbit) = 1370 µL/kg (Rabbit)	= 1641 ppm (Rat)4 h
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B). This product contains titanium dioxide which is

classified as a possible carcinogen when present as respirable dust. This is not relevant for

this product since it is a liquid.

Chemical Name ACGIH IARC NTP OSHA Mexico

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					T-1000-1
2-Butoxy Ethanol	A3	Group 3	*	-	-
111-76-2	1				
Titanium Dioxide 13463-67-7	-	Group 2B	•	×	-
Carbon Black	A3	Group 2B	•	Х	-
1333-86-4					

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure

No information available.

No information available.

STOT - repeated exposure Chronic toxicity No information available. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May

cause adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoletic System, kidney, liver, lungs,

Respiratory system, Skin, Gastrointestinal tract (GI).

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0.7959515% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

3.57075% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Butoxy Ethanol 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940; 24 h Daphnia magna mg/L EC50
2-Dimethylaminoethanol 108-01-0	35: 72 h Desmodesmus subspicatus mg/L EC50	81: 96 h Pimephales promelas mg/L LC50 static	98.77: 48 h Daphnia magna mg/L EC50
Carbon Black 1333-86-4	-	`•	5600: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No Information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Butoxy Ethanol 111-76-2	0.81
2-Dimethylaminoethanol 108-91-0	-0.55

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignifion. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

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14. TRÁNSPORT INFORMATION

Not regulated DOT Not regulated TDG Not regulated MEX

Not regulated IATA

Not regulated IMDG

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Not Determined DSL/NDSL Not Determined **ENCS** Not Determined **IECSC** Not Determined KECL Not Determined **PICCS** AICS Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

or chemicals which are subject to the reporting requirements of the	
Chemical Name	SARA 313 - Threshold Values %
2-Butoxy Ethanol - 111-76-2	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

US State Regulations

ay contain embetances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
2-Butoxy Ethanol 111-76-2	X	×	X	-	
Titanium Dloxide 13463-67-7	X	×	X		·
2-Dimethylaminoethanol 108-01-0	×	X	X	-	

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Copper(III) phthalocyanine 147-14-8	X	*	X	. 24	*
Stoddard solvent, solvent naphta 8052-41-3	X	Х	Х		*
Carbon Black 1333-86-4	X	X	X	X	**
Ethylbenzene 100-41-4	X	×	X		X
Distiflates (petroleum), solvent-refined light paraffinic 64741-89-5	•	X	-	•	

16. OTHER INFORMATION

Issue Date Revision Date 25-Aug-2015 25-Aug-2015

Revision Note

No information available

Disclaimer

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet

W WATSON STANDARD

SAFETY DATA SHEET

ISO 9001 - 2008

Issue Date 25-Aug-2015

Revision Date 25-Aug-2015

Version 1

11. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE GOMPANY/UNDERTAKING

Product identifier

Product Code

6556

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard 616 Hite Road Harwick PA, 15049

724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2 HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

In case of fire: Use CO2, dry chemical, or foam for extinction

Evacuate area and fight fire from a safe distance

Precautionary Statements - Storage

Store in accordance with local regulations

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-Butoxy Ethanol	111-76-2	10 - 30
Trade Secret Pigment	Proprietary	1 – 5
2-Dimethylaminoethanol	108-01-0	1 - 5
Titanium Dioxide	13463-67-7	0.1 - 1
Carbon Black	1333-86-4	0.1-1
Trade Secret Additive	Proprietary	0,1-1

4 FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

6556

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with linert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7 HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Trade Secret Pigment	TWA: 1 mg/m³ Fe	(vacated) TWA: 1 mg/m³ Fe	TWA: 1 mg/m³ Fe	Mexico: TWA 1 mg/m³ Mexico: STEL 2 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³, total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m ³	Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³
Carbon Black 1333-86-4	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH	Mexico: TWA 3.5 mg/m ³ Mexico: STEL 7 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

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Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Face protection shield. Tight sealing safety goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9; PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid Amines

opaque, green

Property

рΗ

Values 8.0-8.5

Melting point / freezing point Boiling point / boiling range

Boiling point / boiling ran Flash Point Evaporation rate

Flammability (solid, gas) Flammability Limit in Air

Flammability Limit in Air
Unner flammability limit

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density Specific Gravity

Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature

Viscosity

Explosive properties
Oxidizing properties

Values

6.0-6.5 No information available

No information available > 94 °C / > 200 °F

No information available No information available

No information available

No information available No information available

1.04

Soluble in water

No information available No information available No information available No information available

No information available No information available No information available

Other Information

Softening point Molecular weight VOC Content (%)

Density Bulk density No information available No information available No information available 8.70 lb/gal +/- 0.20 No information available

Remarks · Method

Pensky-Martens Closed Cup (PMCC)

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10. STABILITY AND REACTIVITY

Reactivity
Not Applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of initiating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11-TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

	Oral LD50	Dermai LD50	Inhalation LC50
Chemical Name 2-Butoxy Ethanol	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
111-76-2 Trade Secret Pigment	> 10000 mg/kg (Rat)	*	*
2-Dimethylaminoethanol 108-01-0	= 1803 mg/kg (Rat)	= 1220 mg/kg (Rabbit) = 1370 µL/kg (Rabbit)	= 1641 ppm (Rat)4 h
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	

Information on toxicological effects

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

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Carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product

since it is not in a respirable form.

	51100 H	10 HOLD OF TOO PROPERTY	D. B. Miller Sans.	OSHA	Mexico
Chemical Name	ACGIH	IARC	NTP	USAA	1110
2-Butoxy Ethanol	A3	Group 3	*	*	
111-76-2 Titanium Dioxide	*	Group 2B		Х	•
13463-67-7 Carbon Black	A3	Group 2B	A STATE OF THE STA	×	
1333-86-4	i				

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available. No information available.

STOT - single exposure

No information available.

STOT - repeated exposure Chronic toxicity

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May

cause adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, lungs,

Respiratory system, Skin, Gastrointestinal tract (GI).

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0.13510299% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

12: EGOLOGIGAL INFORMATION

Ecotoxicity

2 82642% of the mixture consists of components(s) of unknown hazards to the aquatic environment

3		S Of Componentator of Components	Fish	Crustacea
	Chemical Name 2-Butoxy Ethanol 111-76-2	Algae/aquatic plants	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
	2-Dimethylaminoethanol 108-01-0	35: 72 h Desmodesmus subspicatus mg/L EC50	81: 96 h Pimephales prometas mg/L I C50 static	,
	Carbon Black 1333-86-4	-	•	5600: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

<u>Bioaccumulation</u>

No information available.

	Partition coefficient
Chemical Name	0.81
2-Butoxy Ethanol	0.01
111-76-2	
2-Dimethylaminoethanol	-0.55
108-01-0	<u></u>

Other adverse effects

No information available

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14 TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

ATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA DSL/NDSL Complies Not Determined

ENCS

Not Determined Not Determined

IECSC KECL

Not Determined

Not Determined **PICCS**

AICS

Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical

of chemicals which are subject to the reporting requirements of the	TE ACL and This 40 of the Obde of Federal Regulations, Factoriz
Chemical Name	SARA 313 - Threshold Values %
2-Butoxy Ethanol - 111-76-2	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

US State Regulations

This product may contain substances regulated by state right-to-know regulations

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Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
2-Butoxy Ethanol 111-76-2	X	×	X		**
2-Dimethylaminoethanol 108-01-0	X	×	Х	•	,
Titanium Dioxide 13463-67-7	X	×	X	1	LCHANAGO AND
Pigment Green 7 1328-53-6	X	-	X	-	-
Carbon Black 1333-86-4	X	Х	X	X	
Stoddard solvent, solvent naphta 8052-41-3	X	Х	X	-	_
Ethylbenzene 100-41-4	X	×	X	•	X
Distiliates (petroleum), solvent-refined light paraffinic 64741-89-5	-	X	_	_	

16 OTHER INFORMATION

Issue Date Revision Date 25-Aug-2015 25-Aug-2015

Revision Note

No information available

Disclaimer

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet



SAFETY DATA SHEET

Issue Date 21-Aug-2015

Revision Date 21-Aug-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code

6651

Recommended use of the chemical and restrictions on use

Recommended Use

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Supplier Address

Watson Industrial Coatings Co. D.B.A Watson Standard 616 Hite Road Harwick PA, 15049 USA

+1-724-275-1000

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

Hazard symbol(s) /Pictogram(s)

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H227 - Combustible liquid



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Keep away from heat and sparks - No Smoking

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	30 - 60
Alkyd Resin	X1143TS1	10 - 30
2-Butoxy Ethanol	111-76-2	10 - 30
Hexamethoxymethyl-melamine-formaldehyde resin	4X179CTS1	5 - 10
Alkyd Resin	X1203TS1	5 - 10
Titanium Dioxide	13463-67-7	1 - 5
Alkyd Resin	X1222TS1	1 - 5
methylated melamine formaldehyde resin	4X179TS1	1 - 5
Ethanol, 2-(butoxyethoxy)-	112-34-5	1 - 5
Copper(III) phthalocyanine	147-14-8	1 - 5
2-Dimethylaminoethanol	108-01-0	1 - 5
Stoddard solvent, solvent naphta	8052-41-3	0.1 - 1
Triethylamine	121-44-8	0.1 - 1
Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-,	126-86-3	0.1 - 1
Pigment Green 7	1328-53-6	0.1 - 1
Silica, amorphous precipitated	112926-00-8	0.1 - 1
Aluminum oxide (Al2O3)	1344-28-1	0.1 - 1
Polycarboxylic Acid Polymer	M750TS1	0.1 - 1
Trade secret air release additive	M778TS1	<0.1
Silane, dichlorodimethyl-, reaction product with	68611-44-9	<0.1
silica		
trimethylbenzene	25551-13-7	<0.1
Benzenesulfonic acid, dodecyl-	27176-87-0	<0.1
1,2,4-Trimethylbenzene	95-63-6	<0.1
Polyether modified polydimethylsiloxane	M729TS1	<0.1
Methanol	67-56-1	<0.1
2-Propanol	67-63-0	<0.1
Siloxane Polyalkyleneoxide Copolymer	68937-54-2	<0.1
2-Methoxymethylethoxy propanol	34590-94-8	<0.1
Formaldehyde	50-00-0	<0.1
Cumene	98-82-8	<0.1
Naphthalene	91-20-3	<0.1
Polyalkylene Oxide	27274-31-3	<0.1
n-butyl alcohol	71-36-3	<0.1

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Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	<0.1
Ethylbenzene	100-41-4	<0.1
White Mineral Oil (petroleum)	8042-47-5	<0.1
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	<0.1
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	<0.1

4. FIRST AID MEASURES

First aid measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a

physician.

Ingestion

If swallowed, call a poison control center or physician immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Use personal protection recommended in Section 8. Wash thoroughly after handling

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Ot I Nome	ACGIH TLV	OSHA PEL	NIOSH IDLH	Exposure Limits
Chemical Name 2-Butoxy Ethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³
Ethanol, 2-(butoxyethoxy)- 112-34-5 Copper(III) phthalocyanine	TWA: 10 ppm_inhalable fraction and vapor TWA: 1 mg/m³ Cu dust and	-	IDLH: 100 mg/m³ Cu dust	
147-14-8	mist		and mist TWA: 1 mg/m³ Cu dust and mist	Mexico: TWA 100 ppm
Stoddard solvent, solvent naphta 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m³	IDLH: 20000 mg/m³ Ceiling: 1800 mg/m³ 15 min TWA: 350 mg/m³	Mexico: TWA 523 mg/m³ Mexico: STEL 200 ppm Mexico: STEL 1050 mg/m³
Triethylamine 121-44-8	STEL: 3 ppm TWA: 1 ppm S*	TWA: 25 ppm TWA: 100 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 40 mg/m³ (vacated) STEL: 15 ppm (vacated) STEL: 60 mg/m³	IDLH: 200 ppm	Mexico: TWA 25 ppm Mexico: TWA 100 mg/m³ Mexico: STEL 40 ppm Mexico: STEL 160 mg/m³
Pigment Green 7 1328-53-6	TWA: 1 mg/m³ Cu dust and mist	-	IDLH: 100 mg/m³ Cu dust and mist TWA: 1 mg/m³ Cu dust and mist	
Silica, amorphous precipitated 112926-00-8	-	(vacated) TWA: 6 mg/m³ TWA: 20 mppcf : (80)/(% SiO2) mg/m³ TWA	-	Mexico: TWA 10 mg/m ³ Mexico: TWA 10 mg/m ³
Aluminum oxide (Al2O3) 1344-28-1	TWA: 1 mg/m³ respirable fraction	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m² respirable fraction		
trimethylbenzene 25551-13-7	TWA: 25 ppm	(vacated) TWA: 25 ppm (vacated) TWA: 125 mg/m³	-	Mexico: TWA 25 ppm Mexico: TWA 125 mg/m³ Mexico: STEL 35 ppm Mexico: STEL 170 mg/m³

1,2,4-Trimethylbenzene 95-63-6	V**	-	TWA: 25 ppm TWA: 125 mg/m³	
Methanol 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m³ (vacated) TWA: 260 mg/m³ (vacated) TWA: 260 mg/m³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m³ (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 325 mg/m³	Mexico: TWA 200 ppm Mexico: TWA 260 mg/m³ Mexico: STEL 250 ppm Mexico: STEL 310 mg/m³
2-Propanol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³	Mexico: TWA 400 ppm Mexico: TWA 980 mg/m³ Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m³
2-Methoxymethylethoxy propanol 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m³ (vacated) STEL: 90 mg/m³ STEL: 900 mg/m³	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m³ STEL: 150 ppm STEL: 900 mg/m³	Mexico: TWA 100 ppm Mexico: TWA 60 mg/m³ Mexico: STEL 150 ppm Mexico: STEL 900 mg/m³
Formaldehyde 50-00-0	Ceiling: 0.3 ppm	TWA: 0.75 ppm (vacated) TWA: 3 ppm unless specified in 1910.1048 (vacated) STEL: 10 ppm 30 min unless specified in 1910.1048 (vacated) Ceiling: 5 ppm unless specified in 1910.1048 STEL: 2 ppm see 29 CFR 1910.1048	IDLH: 20 ppm Ceiling: 0.1 ppm 15 min TWA: 0.016 ppm	Mexico: Ceiling 2 ppm Mexico: Ceiling 3 mg/m ³
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m³ (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m³ (vacated) S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m³	Mexico: TWA 50 ppm Mexico: TWA 245 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 365 mg/m³
Naphthalene 91-20-3	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m³ STEL: 15 ppm STEL: 75 mg/m³	Mexico: TWA 10 ppm Mexico: TWA 50 mg/m³ Mexico: STEL 15 ppm Mexico: STEL 75 mg/m³
n-butyl alcohol 71-36-3	TWA: 20 ppm	TWA: 100 ppm TWA: 300 mg/m³ (vacated) S* (vacated) Ceiling: 50 ppm (vacated) Ceiling: 150 mg/m³	IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m³	Mexico: Ceiling 50 ppm Mexico: Ceiling 150 mg/m³
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³	Mexico: TWA 100 ppm Mexico: TWA 435 mg/m³ Mexico: STEL 125 ppm Mexico: STEL 545 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eyelface protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Odor Color liquid Amines opaque, blue

Property

pΗ Melting point / freezing point Boiling point / boiling range

Flash Point **Evaporation rate**

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density Specific Gravity

Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature

Viscosity

Explosive properties Oxidizing properties

Values

No information available No information available No information available 82.0 °C / 180.0 °F

No information available No information available

No information available No information available No information available No information available

1.09

Soluble in water

No information available No information available

No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

No information available No information available No information available 9.05 lb/gal +/- 0.20 No information available

10. STABILITY AND REACTIVITY

Reactivity Not Applicable

Bulk density

Chemical stability

Stable under normal conditions.

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Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon dioxide (CO2). Hydrocarbons.

11, TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No data available.

Eye contact

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
2-Butoxy Ethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	
Ethanol, 2-(butoxyethoxy)- 112-34-5	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	
2-Dimethylaminoethanol 108-01-0	= 1803 mg/kg(Rat)	= 1220 mg/kg(Rabbit)= 1370 μL/kg(Rabbit)	= 1641 ppm (Rat) 4 h
Triethylamine 121-44-8	= 460 mg/kg (Rat)	= 415 mg/kg(Rabbit)= 570 μL/kg (Rabbit)	= 1250 ppm (Rat) 4 h
Pigment Green 7 1328-53-6	> 3000 mg/kg (Rat)	-	-
Aluminum oxide (Al2O3) 1344-28-1	> 5000 mg/kg (Rat)	-	<u></u>
trimethylbenzene 25551-13-7	= 8970 mg/kg (Rat)		
Benzenesulfonic acid, dodecyl- 27176-87-0	= 1260 mg/kg (Rat)		
1,2,4-Trimethylbenzene 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³ (Rat) 4 h
Methanol 67-56-1	= 6200 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	= 22500 ppm (Rat)8 h = 64000 ppm (Rat)4 h
2-Propanol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m³ (Rat) 4 h
2-Methoxymethylethoxy propanol 34590-94-8	= 5230 mg/kg (Rat)	= 9500 mg/kg (Rabbit)	-
Formaldehyde 50-00-0	= 100 mg/kg (Rat)	= 270 mg/kg(Rabbit)	= 0.578 mg/L (Rat) 4 h
Cumene 98-82-8	= 1400 mg/kg (Rat)	= 12300 μL/kg (Rabbit)	> 3577 ppm (Rat) 6 h = 39000 mg/m³ (Rat) 4 h
Naphthalene 91-20-3	= 1110 mg/kg (Rat) = 490 mg/kg Rat)	(= 1120 mg/kg (Rabbit) > 20 g/kg (Rabbit)	> 340 mg/m³(Rat)1 h

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n-butyl alcohol 71-36-3	= 700 mg/kg (Rat) = 790 mg/kg (Rat)	= 3402 mg/kg (Rabbit) = 3400 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.2 mg/L (Rat) 4 h
White Mineral Oil (petroleum) 8042-47-5	> 5000 mg/kg (Rat)	-	
Distillates (petroleum), solvent-refined light paraffinic 64741-89-5	> 5000 mg/kg(Rat)	> 5 g/kg(Rabbit)	= 2.18 mg/L (Rat) 4 h
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4	> 5000 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	= 2.18 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

Germ cell mutagenicity Carcinogenicity

No information available. No information available.

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). This product contains fitanium dioxide which is

classified as a possible carcinogen when present as respirable dust. This is not relevant for

this product since it is a liquid.

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
P-Butoxy Ethanol	A3	Group 3	-	-	-
Fitanium Dioxide	, pa	Group 2B	-	X	
Silica, amorphous precipitated 112926-00-8	•	Group 3	-	-	-
2-Propanol 67-63-0	sa.	Group 3	-	-	-
Formaldehyde 50-00-0	A2	Group 1	Known	Х	A2
Cumene 98-82-8		Group 2B	Reasonably Anticipated	X	-
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	X	
Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0	A2	-	-	-	-
Ethylbenzene 100-41-4	A3	Group 2B		X	-
Distillates (petroleum), solvent-refined light paraffinic 64741-89-5	A2	-	-	-	-
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4	A2	- to Industrial Hygiani	-	X	-

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity STOT - single exposure

STOT - repeated exposure

No information available. No information available.

No information available.

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Chronic toxicity

May cause adverse effects on the bone marrow and blood-forming system. May cause

adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, lungs,

Respiratory system, Skin. No information available.

Aspiration hazard

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

2.43512671% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

3.14667% of the mixture consists of components(s) of unknown hazards to the aquatic environment Crustacea Fish Algae/aquatic plants Chemical Name 1000: 48 h Daphnia magna mg/L 1490: 96 h Lepomis macrochirus 2-Butoxy Ethanol EC50 1698 - 1940: 24 h Daphnia mg/L LC50 static 2950: 96 h 111-76-2 Lepomis macrochirus mg/L LC50 magna mg/L EC50 100: 48 h Daphnia magna mg/L 1300: 96 h Lepomis macrochirus 100: 96 h Desmodesmus Ethanol, 2-(butoxyethoxy) EC50 2850: 24 h Daphnia magna mg/L LC50 static subspicatus mg/L EC50 112-34-5 mg/L EC50 100: 48 h Oryzias latipes mg/L Copper(III) phthalocyanine LC50 static 147-14-8 98.77: 48 h Daphnia magna mg/L 35: 72 h Desmodesmus subspicatus 81: 96 h Pimephales promelas mg/L 2-Dimethylaminoethanol **EC50** LC50 static mg/L EC50 108-01-0 200: 48 h Daphnia magna mg/L 43.7: 96 h Pimephales promelas Triethylamine EC50 mg/L LC50 static 121-44-8 500: 24 h Daphnia magna Straus 752.4: 96 h Lepomis macrochirus Pigment Green 7 mg/L EC50 mg/L LC50 static 1328-53-6 7.72: 96 h Pimephales promelas trimethylbenzene mg/L LC50 flow-through 25551-13-7 5.88: 48 h Daphnia magna mg/L 10.8:96 h Oncorhynchus mykiss 29: 96 h Pseudokirchneriella Benzenesulfonic acid, dodecylmg/L LC50 static 3.5 - 10; 96 h EC50 subcapitata mg/L EC50 27176-87-0 Brachydanio rerio mg/L LC50 statio 6,14: 48 h Daphnia magna mg/L 7.19 - 8.28: 96 h Pimephales 1,2,4-Trimethylbenzene EC50 prometas mg/L LC50 flow-through 95-63-6 28200: 96 h Pimephales promelas Méthanol mg/L LC50 flow-through 100: 96 h 67-56-1 Pimephales promelas mg/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 13299: 48 h Daphnia magna mg/L 9640: 96 h Pimephales promelas 1000: 96 h Desmodesmus 2-Propanol mg/L LC50 flow-through 11130: 96 subspicatus mg/L EC50 1000: 72 h 67-63-0 h Pimephales promelas mg/L LC50 Desmodesmus subspicatus mg/L static 1400000: 96 h Lepomis EC50 macrochirus µg/L LC50 1919: 48 h Daphnia magna mg/L 10000: 96 h Pimephales promelas ... 2-Methoxymethylethoxy propanol LC50 mg/L LC50 static 34590-94-8 2: 48 h Daphnia magna mg/L LC50 22.6 - 25.7: 96 h Pimephales Formaldehyde 11.3 - 18: 48 h Daphnia magna promelas mg/L LC50 flow-through 50-00-0 mg/L EC50 Static 1510: 96 h Lepomis macrochirus μg/L LC50 static 41: 96 h Brachydanio rerio mg/L LC50 static 0.032 - 0.226: 96 h Oncorhynchus mykiss mL/L LC50 flow-through 100 - 136: 96 h Oncorhynchus mykiss mg/L LC50 static 23.2 - 29.7: 96 h Pimephales promelas mg/L LC50

static

Cumene 98-82-8	2.6: 72 h Pseudokirchneriella subcapitata mg/L EC50		7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static 0.6: 48 h Daphnia
30 02 0		4.8: 96 h Oncorhynchus mykiss	magna mg/L EC50
		mg/L LC50 flow-through 2.7: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		semi-static 5.1: 96 h Poecilia	
		reticulata mg/L LC50 semi-static	
Naphthalene	0.4: 72 h Skeletonema costatum	5.74 - 6.44: 96 h Pimephales	2.16: 48 h Daphnia magna mg/L
91-20-3	mg/L EC50	prometas mg/L LC50 flow-through	LC50 1.96: 48 h Daphnia magna
		1.6: 96 h Oncorhynchus mykiss	mg/L EC50 Flow through 1.09 - 3.4:
		mg/L LC50 flow-through 0.91 - 2.82:	48 h Daphnia magna mg/L EC50 Static
		96 h Oncorhynchus mykiss mg/L	Static
		LC50 static 1.99; 96 h Pimephales promelas mg/L LC50 static 31.0265;	
		96 h Lepomis macrochirus mg/L	
		LC50 static	
	500.00 b D	1730 - 1910: 96 h Pimephales	1983; 48 h Daphnia magna mg/L
n-butyl alcohol	500: 96 h Desmodesmus subspicatus mg/L EC50 500: 72 h	promelas mg/L LC50 static 1740: 96	
71-36-3	Desmodesmus subspicatus mg/L	h Pimephales prometas mg/L LC50	
	EC50	flow-through 100000 - 500000: 96 h	
	2030	Lepomis macrochirus µg/L LC50	
		static 1910000: 96 h Pimephales	
		promelas µg/L LC50 static	
Distillates (petroleum),		5000: 96 h Oncorhynchus mykiss	1000: 48 h Daphnia magna mg/L
solvent-dewaxed heavy paraffinic		mg/L LC50	EC50
64742-65-0			
Ethylbenzene	4.6: 72 h Pseudokirchneriella	11.0 - 18.0: 96 h Oncorhynchus	1.8 - 2.4: 48 h Daphnia magna mg/L
100-41-4	subcapitata mg/L EC50 438: 96 h	mykiss mg/L LC50 static 4.2: 96 h	EC50
	Pseudokirchneriella subcapitata	Oncorhynchus mykiss mg/L LC50	
	mg/L EC50 2.6 - 11.3: 72 h	semi-static 7.55 - 11: 96 h	
	Pseudokirchneriella subcapitata	Pimephales promelas mg/L LC50	
Service Servic	mg/L EC50 static 1.7 - 7.6: 96 h	flow-through 32: 96 h Lepomis	
**	Pseudokirchneriella subcapitata	macrochirus mg/L LC50 static 9.1 -	
	mg/L EC50 static	15.6: 96 h Pimephales promelas	
		mg/L LC50 static 9.6: 96 h Poecilia reticulata mg/L LC50 static	
	444		
White Mineral Oil (petroleum)	-	10000; 96 h Lepomis macrochirus	•
8042-47-5		mg/L LC50	1000: 48 h Dophnia magne mall
Distillates (petroleum),	-	5000: 96 h Oncorhynchus mykiss	1000: 48 h Daphnia magna mg/L EC50
solvent-refined light paraffinic	A CONTRACTOR OF THE CONTRACTOR	mg/L LC50	
64741-89-5		FOOD OO b Orest tracking at the	1000: 48 h Daphnia magna mg/L
Distillates (petroleum),	~1	5000: 96 h Oncorhynchus mykiss mg/L LC50	EC50
solvent-refined heavy paraffinic		nig/L LC30	
64741-88-4		<u> </u>	

Persistence and degradability No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Butoxy Ethanol 111-76-2	0.81
Copper(III) phthalocyanine 147-14-8	6.6
2-Dimethylaminoethanol 108-01-0	-0.55
Triethylamine 121-44-8	1.45
1,2,4-Trimethylbenzene 95-63-6	3.63
Methanol 67-56-1	-0.77
2-Propanol 67-63-0	0.05
2-Methoxymethylethoxy propanol 34590-94-8	-0.064

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Formaldehyde 50-00-0	0.35
Cumene 98-82-8	3.55
Naphthalene 91-20-3	3.3
n-butyl alcohol 71-36-3	0.785
Ethylbenzene 100-41-4	3.118
White Mineral Oil (petroleum) 8042-47-5	>6

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Residual vapors may explode on ignition. Never pierce, drill, grind, cut, saw or weld any empty container. Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Note:

DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2)"

DOT

UN/ID No.

NA1263

Proper shipping name Hazard Class Paint, combustible Combustible liquid

Packing Group

111

TDG_

Not regulated

MEX

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Not Determined
ENCS Not Determined
IECSC Not Determined
KECL Not Determined
PICCS Not Determined
AICS Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations. Part 372

of chemicals which are subject to the reporting requirements of the Act and This 40 of the Code of Lederar regulations, if the code			
Chemical Name	SARA 313 - Threshold Values %		
2-Butoxy Ethanol - 111-76-2	1.0		
Ethanol, 2-(butoxyethoxy) 112-34-5	1.0		
Copper(III) phthalocyanine - 147-14-8	1.0		

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

US State Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Pennsylvania - Special Hazardous Substances	Pennsylvania - Environmental Hazard List
2-Butoxy Ethanol 111-76-2	X	X	X		**
Titanium Dioxide 13463-67-7	X	×	Х	-	-
Ethanol, 2-(butoxyethoxy)- 112-34-5	Х	-	Х	-,	***
Copper(III) phthalocyanine 147-14-8	X	-	Х	· · · · •	
2-Dimethylaminoethanol 108-01-0	Х	X	X	-	_
Stoddard solvent, solvent naphta 8052-41-3	X	Х	Х	· . •	-
Triethylamine 121-44-8	X	X	X		X
Pigment Green 7 1328-53-6	X	-	Х	-	w-
Silica, amorphous precipitated 112926-00-8	Х	X	, X	•	-
Aluminum oxide (Al2O3) 1344-28-1	Х	X	Х	-	Х
Ethylbenzene 100-41-4	×	· X	X	-	X
Distillates (petroleum), solvent-refined light paraffinic 64741-89-5	<u>-</u>	X	~	_	-

16. OTHER INFORMATION

Issue Date **Revision Date Revision Note** 21-Aug-2015 21-Aug-2015

No information available

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Revision Date 21-Aug-2015

<u>Disclaimer</u>

The information contained herein is derived from data provided by suppliers and other sources believed to be reliable, and is furnished without warranty of any kind. The information relating to the product is for guidance purposes only, is based only on downstream uses known to Watson Standard, and may not be valid for the product used in combination with any other materials. Users of this product must make determinations of suitability and completeness of information from this and all other sources to ensure proper use and disposal of this product, safety and health of employees, customers, and the protection of the environment. Watson Standard will not be liable for any special, incidental, or consequential damages associated with the use or handling of the product.

End of Safety Data Sheet